

1 **In the Claims:**

2 **Claims pending**

- 3 • At time of the Action: Claims 1-58.
4 • After this Response: Claims 1-34, 52 and 58-61.

5 **Currently Amended claims:** 1, 3-7, 9, 13, 16, 17, 20-22, 27, 28, 30-
6 32, 52, and 58.

7 **Currently Cancelled claims:** 35-51 and 53-57.

8 **New claims:** 59-61.

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11 This listing of claims will replace all prior versions, and listings, of claims
12 in the application:
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15 1. (Currently amended) A system for supporting
16 ~~transacted remote file operations between a local device and a remote device, the~~
17 ~~system comprising:~~

18 ~~a transaction manager; and~~

19 ~~a redirector residing on a local device operable to receive a request to~~
20 ~~perform a file operation on a file residing on a in the remote device that is coupled~~
21 ~~to the local device, and to look up a transaction from the request; the local and~~
22 ~~remote devices connected to a network, wherein the redirector is to send the~~
23 ~~request to the remote device over the network within a transaction~~

24 ~~a transaction manager to marshall the transaction effective to allow~~
25 ~~the redirector to send the marshalled transaction and the requested file operation to~~

1 the remote device to retrieve a file operation result that was otherwise unavailable
2 on the local device.

3
4 2. (Original) A system according to Claim 1, wherein the
5 transaction manager is not integrated into a file system.

6
7 3. (Currently amended) A system according to Claim 1, wherein
8 the redirector is operable to receive the file operation result including file
9 information from the remote device that includes a file system identifier (Fid) and
10 a version identifier associated with the file.

11
12 4. (Currently amended) A system according to Claim 3, wherein
13 the redirector is operable to selectively create a file control block (FCB) associated
14 with the file, the FCB including the Fid and version identifier information
15 associated with the file.

16
17 5. (Currently amended) A system according to Claim 4, wherein
18 the redirector is operable to determine whether an existing FCB can be used for the
19 request.

20
21 6. (Currently amended) A system according to Claim 5, wherein
22 the redirector is operable to determine whether an existing FCB that is associated
23 with an uncommitted transaction can be used for the request.

24
25 7. (Currently amended) A system according to Claim 5, wherein
the redirector, in determining whether an existing FCB can be used for the request,

1 is operable to compare a pathname and transaction context for the request with a
2 pathname associated with the existing FCB.

3
4 8. (Original) A system according to Claim 1, wherein the
5 transaction manager is a kernel level transaction manager.

6
7 9. (Currently amended) A system according to Claim 1, wherein
8 the redirector is operable to selectively indicate in the request that the remote
9 device should signal the local machine responsive to a file operation being
10 performed on the file that was not requested by the redirector.

11
12 10. (Original) A system according to Claim 1, wherein the
13 redirector sends the transaction with request using a protocol based on a server
14 message block (SMB) protocol.

15
16 11. (Original) A system according to Claim 10, wherein the
17 protocol supports non-transacted remote file operations.

18
19 12. (Original) A computer-readable medium having stored
20 thereon components as recited in Claim 1.

21
22 13. (Currently amended) A system ~~for supporting transacted~~
23 ~~remote file operations between a local device and a remote device, the system~~
24 ~~comprising:~~

1 a server component (SRV) resident on a local device and operable to
2 receive a request from a remote device via a network coupling, the request being
3 for a transacted file operation on a file residing in the local device;

4 a transaction manager resident at the local device and operable to
5 communicate transaction messages relating to the transacted file operation to the
6 remote device; and

7 a file system resident at the local device and operable to perform the
8 requested transacted file operation on the file responsive to the SRV component
9 and transaction manager, ~~the local and remote devices connected to a network~~
10 effective to generate a transacted file operation result on behalf of the remote
11 device.

1 14. (Original) A system according to Claim 13, wherein the SRV
2 component provides a file system identifier (Fid) and a version identifier
3 associated with the file to the remote device.

4
5 15. (Original) A system according to Claim 13, wherein the
6 transaction manager is a kernel level transaction manager.

7
8 16. (Currently amended) A system according to Claim 13,
9 wherein the file system is operable to selectively cause the SRV component to
10 signal the remote device responsive to a file operation being performed on the file
11 that was not requested by the remote device.

12 17. (Currently amended) A system according to Claim 13,
13 wherein the SRV component sends the transaction with the request using a
14 protocol based on a server message block (SMB) protocol.

15
16 18. (Original) A system according to Claim 17, wherein the
17 protocol supports non-transacted remote file operations.

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19 19. (Original) A computer-readable medium having stored
20 thereon components as recited in Claim 12.

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22 20. (Currently amended) A method ~~of implementing a transacted~~
23 ~~remote file operation on a local device, the method~~ comprising:

24 receiving a request for a ~~transacted remote~~ file operation;

1 determining whether a corresponding file resides on a local device or
2 a remote device that is coupled to the local device;

3 retrieving a transaction for the operation;

4 marshalling the transaction;

5 in an instance, where the file resides on the remote device, sending
6 the marshalled transaction with the request to the remote device over a network;
7 and

8 receiving from the remote device information resulting from the file
9 operation that was otherwise unavailable to the local device.

10
11 21. (Currently amended) A method according to Claim 20,
12 wherein the information received from the remote device includes a file identifier
13 (Fid) and a version identifier.

14
15 22. (Currently amended) A method according to Claim 21,
16 wherein receiving a request for a transacted ~~remote~~ file operation further
17 comprises:

18 ~~determining whether the request is for a file operation on remote~~
19 ~~device;~~

20 providing a name for the request if the request is for a file operation
21 on the a remote device; and

22 selectively creating a file control block (FCB) associated with the
23 file, the FCB including the Fid and version identifier information associated with
24 the file.
25

1 23. (Original) A method according to Claim 22, wherein
2 selectively creating a FCB further comprises determining whether an existing FCB
3 can be used for the request.

4
5 24. (Original) A method according to Claim 23, wherein
6 determining whether an existing FCB can be used for the request further comprises
7 determining whether the existing FCB is associated with an uncommitted
8 transaction.

9
10 25. (Original) A method according to Claim 23, wherein
11 determining whether an existing FCB can be used for the request, further
12 comprises comparing a pathname and transaction context for the request with a
13 pathname associated with the existing FCB.

14 26. (Original) A method according to Claim 20, wherein the
15 method is performed in a kernel mode.

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17 27. (Currently amended) A method according to Claim 20, further
18 comprising selectively indicating in the request that the remote device should
19 signal the local device-machine in response to a file operation being performed on
20 the file that was requested by a device other than the local device .

21
22 28. (Currently amended) A method according to Claim 20,
23 wherein the transaction is sent with the request using a protocol based on a server
24 message block (SMB) protocol.

1 29. (Original) A method according to Claim 28, wherein the
2 protocol supports non-transacted remote file operations.

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4 30. (Currently amended) A computer-readable medium having
5 computer-executable instructions to perform operations comprising:

6 receiving a request for a transacted ~~remote~~ file operation;

7 determining whether a corresponding file resides on a local device or
8 a remote device that is coupled to the local device;

9 retrieving a transaction corresponding to the file operation;

10 marshalling the transaction;

11 in an instance, where the file resides on the remote device, sending
12 the marshalled transaction with the request to a remote device over a network; and

13 receiving from the remote device information resulting from the
14 transacted file operation that was otherwise unavailable on the local device.

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17 31. (Currently amended) A computer-readable medium according
18 to Claim 30, wherein the information received from the remote device includes a
19 file identifier (Fid) and a version identifier.

20 32. (Currently amended) A computer-readable medium according
21 to Claim 31, wherein receiving a request for a transacted-~~remote~~ file operation
22 further comprises:

23 ~~determining whether the request is for a file operation on remote~~
24 ~~device;~~

1 providing a name for the request if the request is for a file operation
2 on thea remote device; and

3 selectively creating a file control block (FCB) associated with the
4 file, the FCB including the Fid and version identifier information associated with
5 the file.

6
7 33. (Original) A computer-readable medium according to
8 Claim 32, wherein selectively creating a FCB further comprises determining
9 whether an existing FCB can be used for the request.

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11 34. (Original) A computer-readable medium according to
12 Claim 33, wherein determining whether an existing FCB can be used for the
13 request further comprises determining whether the existing FCB is associated with
14 an uncommitted transaction.

15 35. - 51. (Cancelled).

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17 52. (Currently amended) A method ~~for use in performing a~~
18 ~~transaction file operation over a network, the method comprising:~~

19 receiving a pre-prepare notification from a transaction manager
20 residing in a first computing platform;

21 providing file operation data from the first computing platform to a
22 second computing platform ~~via the network;~~

23 receiving a prepare notification from the transaction manager
24 residing in the first computing platform; and
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1 providing a message to the second computing platform containing
2 the prepare notification via the network effective to allow transacted file
3 information to be obtained on behalf of the first computing platform.

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5 53. – 57. (Cancelled).

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7 58. (Currently amended) A method ~~for use in performing a~~
8 ~~transacted file operation over a network, the method comprising:~~

9 receiving a pre-prepare notification associated with a transaction
10 from a first computing platform at ~~in~~ a second computing platform;

11 providing the pre-prepare notification to a transaction manager
12 residing in the second computer platform;

13 receiving, ~~via the network,~~ file operation data associated with the
14 transaction from the first computing platform at ~~in~~ the second computing platform;

15 providing the file operation data to a file system residing in the
16 second computing platform;

17 receiving, ~~via the network,~~ a prepare notification from the first
18 computing platform; and

19 providing the prepare notification to the transaction manager residing
20 in the second computing platform effective to allow transacted file information to
21 be obtained on behalf of the first computing platform.

22 59. (New) The method of claim 58 wherein the prepare
23 notification causes the second computing platform to store the file operation data
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1 in a manner that allows the file operation data to be either committed or rolled-
2 back.

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4 60. (New) The method of claim 58 wherein the pre-prepare
5 notification causes the second computing platform to flush any caches of the
6 second computing platform associated with the transaction.

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8 61. (New) The method of claim 30, wherein the marshalling
9 comprises formatting information associated with the transaction for transmission
10 using a version of server message block (SMB) protocol that has been extended to
11 support transactions.
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